

Exhibit A

Nucleotide

JAN 06 2003

PubMed

Nucleotide

Protein

Genome

Structure

PMC

Taxonomy

OMIM

Bi

Search

Nucleotide

for

Go

Clear

Limits

Preview/Index

History

Clipboard

Details

Display

default

Save

Text

Add to Clipboard

1: AA362146. EST71810 Macrophage...[gi:2014696]

Links

IDENTIFIERS

dbEST Id: 1003685
EST name: EST71810
GenBank Acc: AA362146
GenBank gi: 2014696

CLONE INFO

Clone Id: (3' end)
Source: ATCC
Id in host: 166475
Other ESTs on clone: EST71811 THC128798
DNA type: cDNA

PRIMERS

Sequencing: M13-21
PolyA Tail: Unknown

SEQUENCE

```
CTTCAGTGAAGTTTATTTTCAGAACCATTTGAACAGTATGATATTTGCTCATTTATAAATAT  
TCCCATTAAATAATCTGAGCTTATATATTTNCAGTGTTAATTAAAGGACTTGATTTAAA  
GAGAGCACACCCAGTCCAAATTGAATTGATTCATAGCTATTAAAACTAGGCTCTTTTAC  
AGACACTGCTACTTCTTGCCCCCTTTGAATAAATTAGACCAATGAATAAAACAAACAAAC  
AAATAAATAAATAAATAGGGAAGCGGTTGCTCATCAGAATGTGGGAGCGAATGACAGAGG  
GTTTCTTAAAAAACTGGAATGTTGGCATGCATTTGACTTCACACTCTGAAGCAACATCCT  
GACAGTCATCCACATCTACTTCAAGGGAATATCACGNTGGGAATACTTTTCAGAG
```

Entry Created: Apr 21 1997
Last Updated: Apr 21 1997

COMMENTS

For clone availability, additional sequence and expression information related to this EST, please check the TIGR Human Gene Index (<http://www.tigr.org/tdb/hgi/hgi.html>)

PUTATIVE ID Assigned by submitter
similar to interleukin 1, beta (GB:X04500)

LIBRARY

Lib Name: Macrophage II
Organism: Homo_sapiens
Cell type: macrophage
Develop. stage: adult
Vector: pBluescript SK-
R. Site 1: EcoRI
R. Site 2: XhoI

SUBMITTER

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CITATIONS

Medline UID: 96026280
Title: Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence
Authors: Adams,M.D., Kerlavage,A.R., Fleischmann,R.D., Fuldner,R.A., Bult,C.J., Lee,N.H., Kirkness,E.F., Weinstock,K.G., Gocayne,J.D., White,O., Sutton,G., Blake,J.A., Brandon,R.C., Man-Wai,C., Clayton,R.A., Cline,T.R., Cotton,M.D., Earle-Hughes,J., Fine,L.D., Fitzgerald,L.M., Fitzhugh,W.M., Fritchman,J.L., Geoghagen,N.S., Glodek,A., Gnehm,C.L., Hanna,M.C., Hedblom,E., Hinkle,P.S.Jr., Kelley,J.M., Kelley,J.C., Liu,L.-I., Marmaros,S.M., Merrick,J.M., Moreno-Palanques,R.F., McDonald,L.A., Nguyen,D.T., Pelligrino,S.M., Phillips,C.A., Ryder,S.E., Scott,J.L., Saudek,D.M., Shirley,R., Small,K.V., Spriggs,T.A., Utterback,T.R., Weidman,J.F., Li,Y., Bednarik,D.P., Cao,L., Cepeda,M.A., Coleman,T.A., Collins,E.J., Dimke,D., Feng,D.-F., Ferrie,A., Fischer,C., Hastings,G.A., He,W.W., Hu,J.S., Greene,J.M., Gruber,J., Hudson,P., Kim,A.K., Kozak,D.L., Kunsch,C., Hungjun,J., Li,H., Meissner,P.S., Olsen,H., Raymond,L., Wei,Y.F., Wing,J., Xu,C., Yu,G.L., Ruben,S.M., Dillion,P.J., Fannon,M.R., Rosen,C.A., Haseltine,W.A., Fields,C., Fraser,C.M., Venter,J.C.
Citation: Nature 377 (6547 Suppl): 3-174 1995

MAP DATA

Revised: July 5, 2002.

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